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For CC 100

ODP-81-1454
4 November 1981

MEMORANDUM FOR: Systems Requirements Manager, OC

25X1 FROM:

[Redacted]
Chief, Management Staff, ODP

SUBJECT: Updated Communications Support Requirements
for FY 1983 - FY 1987

REFERENCE: Memo for D/ODP, et. al, fm. ADDA, same subject
dtd 26 June 1981, (DD/A 81-1300/2)

1. As requested, ODP is forwarding an updated version of
1983 requirements with out-year projections where applicable.

2. In order to better identify and track these
requirements, we are adding a unique ODP identifier with each
numerically ranked requirement.

3. Where appropriate, we have updated the requirements
statements. The summary of requirements has also been updated.



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Att: A - Summary of Requirements
Att: B - Requirements Papers

Distribution
DD/A/ODP

[Redacted] DD/P/ODP

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when separated from attachment.

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ATTACHMENT A

Status of Previous Communications Requirements

FY 1983 - FY 1987

- 25X1
- ODP 83-1 CAMS2 Development Facility Communications Support
(FY 1982)*
Communications support for a [] person staff in the [] 25X1
[]
Status: ODP has funded \$198,000 in FY 1982.
- ODP 83-2 CAMS2 Communications Upgrade (FY 1984).
Fourfold increase in traffic volume for CAMS and
bulk data transfer via Project Mercury.
Status: ODP has funded \$85,000 in FY 1984.
- ODP 83-3 Wideband BUS Communications (WBCS) Support
(FY 1983).
Operation and maintenance of Headquarters WBCS
Status: OC will fund.
- ODP 83-4 4C System (Phase II) Worldwide Communications
Support (FY 1983)
Extension of communications support worldwide
Status: Covered in 4C (OS) budget.
- ODP 83-5 Installation of COMTEN Equipment in Outbuildings
(FY 1984).
Required to improve communications to remote metro
locations.

* FY required

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Status: Statistical multiplexers to replace COMTENS. Funding is the same in either case. \$83,000 in the ODP FY 1983 budget at the enhanced level was not approved.

ODP 83-6 General Communications Support for Terminal Installations.

Installation and relocation of terminals in Headquarters and outbuildings. TRW will install initial terminals for SAFE.

Status: OC will continue funding at previous levels.

ODP 83-7 Development of Interface between WBCS and COMTEN Processors (FY 1984).

Requirement moved to FY 1984 from FY 1983.

Status: ODP will place funds in FY 1984 Engineering budget.

ODP 83-8 Automatic Resynchronization of Cryptographic Devices in Outbuilding Circuits (FY 1983).

To replace manual resynchronization--a time consuming process resulting in prolonged outages.

Status: OC will provide.

ODP 83-9 Enhanced Circuit Speed Capability (FY 1983).

To provide support for graphics devices, plotters and minicomputers.

Status: Installation of Statmux will resolve problem.

ODP 83-10 Additional Data Lines and Patch Panels in Ruffing and Special Centers (FY 1986).

To accommodate additional terminal installations and handle asynchronous and synchronous data.

Status: OC will fund.

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ATTACHMENT B

DDA RANK: _____ of _____

OFFICE RANK: _____ of _____

OFFICE: ODP/Applications/A Division

TITLE: CAMS2 Development Facility Communications Support

REQUIREMENT:

As part of the expansion of the total workforce for the development of CAMS2, an additional secure facility will be acquired to house the Development and Quality Assurance contract personnel. This facility will require secure voice and secure data transmission facilities for approximately [] personnel. This facility will be the [] and should be available by January 1982. Funds for these secure communications facilities are in the FY 81-82 CAMS budget.

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JUSTIFICATION:

This facility is necessary to support the development of CAMS2 in response to national collection system enhancements and modifications planned for the 1984/85 timeframe. The Agency simply does not have the space to house this effort.

TIME REQUIREMENT:

Communications support to this facility must be in place not later than January 1982 and continue through FY 1988.

IMPACT OF LACK OF SERVICE ON OTHER PROGRAMS:

If this service is not provided, data processing support to enhance CAMS for the new/modified collection systems cannot be accomplished within the required timeframe, thus depriving the Agency and the remainder of the Intelligence Community of a valuable and responsive source of intelligence.

CONTACT:

NAME: []

OFFICE: C/A Division/ODP

TELEPHONE: []

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COST ESTIMATES

09/16/81

FOR

DDA FY 1983 COMMUNICATIONS REQUIREMENTS

DIRECTORATE REQUIREMENT: 13

OFFICE: ODP

SECURE VOICE AND DATA CAPABILITY FOR
BY JANUARY 1982.

(FUNDS ARE IN FY82 CAMS BUDGET)

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COMMENT: LEASED LINE COSTS ARE RECURRING

<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>TOTAL COST</u>	<u>SOC</u>
LEASED T-1 LINE	1	24,000	24,000	2341
PHONES RACKS ETC	1	25,000	25,000	2604
MULTIPLEXER (M24)	2	10,000	20,000	3104
CY-104A TYPE DEVICE	2	32,000	64,000	3104
ELECTRONIC KEY SYS	4	7,500	30,000	3104
MULTIPLEXER (T-96)	2	17,500	35,000	3104

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COST ESTIMATES

09/16/81

FOR

DDA FY 1984 COMMUNICATIONS REQUIREMENTS

DIRECTORATE REQUIREMENT: 15 OFFICE: ODP

BULK DATA TRANSFER CAPABILITY FOR CAMS2 AS
SOON AS AVAILABLE.

COMMENT: EQUIPMENT BELOW WILL PROVIDE MULTI-
CIRCUITS FOR VIRTUALLY ANY DATA RATES
REQUIRED IN ADDITION TO CURRENT CIRCUITS

<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>TOTAL COST</u>	<u>SOC</u>
INST MATERIALS	1	1,000	1,000	2604
KG-81 SYSTEM	2	17,400	34,800	3104
SMC-210 MUX	2	25,000	50,000	3104

DDA RANK: _____ of _____

OFFICE RANK: _____ of _____

OFFICE: ODP/Applications/A Division

TITLE: CAMS2 Communications Upgrade

REQUIREMENT:

The COMIREX Automated Management System (CAMS) is being upgraded for the 1984/85 timeframe. This upgrade, CAMS2, is necessary to support the significant improvement in technical collection capabilities planned during that timeframe. We anticipate a 4-fold increase in the volume of CAMS message traffic (currently via DATEX). We anticipate the need to use the bulk data transfer capability of Project Mercury as soon as it is available.

JUSTIFICATION:

Increase is due to enhanced national collection systems increases. This requirement was levied upon ODP by PTO/CTS.

TIME REQUIREMENT:

Required no later than 1 April 1984 and through FY 1987.

IMPACT OF LACK OF SERVICE ON OTHER PROGRAMS:

CAMS must have a responsive communications network in order to fulfill its mission. We expect to be a heavy user of Mercury and must be able to rely on whatever interim support is being planned. If the support is not provided, CAMS loses its ability to provide current accomplishment data and quickly task the collection systems.

CONTACT:

25X1 NAME:

OFFICE: C/A Division/ODP

25X1 TELEPHONE:

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COST ESTIMATES
FOR

02/24/81

DDA FY 1984 COMMUNICATIONS REQUIREMENTS

ECTORATE REQUIREMENT: C5 OFFICE: ODP

ULK DATA TRANSFER CAPABILITY FOR CAMS2 AS
OON AS AVAILABLE.

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COMMENT: EQUIPMENT BELOW WILL PROVIDE MULTI-
CIRCUITS FOR VIRTUALLY ANY DATA RATES
REQUIRED IN ADDITION TO CURRENT CIRCUITS

DESCRIPTION	QTY	UNIT COST	TOTAL COST	SOC
	0	0	0	
INST MATERIALS	1	1000	1000	2604
KG-81 SYSTEM	2	17400	34800	3104
SMC-210 MUX	2	25000	50000	3104

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DDA RANK: _____ Of _____
OFFICE RANK: 3 Of 10

OFFICE: ODP/Special Projects Staff and Engineering Division

TITLE: Wideband Bus Communications System (WBCS) Support

REQUIREMENT:

The Office of Communications is to assume operation and maintenance responsibility for the WBCS during the second quarter of FY 1983. In July 1982, the SAFE and WBCS development contractor,

25X1 ☐ will issue a proposal for providing operations and maintenance support of SAFE and the WBCS through FY 1983.

Therefore, while OC will be responsible for operation and

25X1 maintenance of the WBCS, ☐ may be available to augment that support.

JUSTIFICATION:

The WBCS will be installed and tested during FY 1980 through FY 1982. The WBCS will be placed into operation with the first increment of the SAFE system during the second quarter of FY 1983. Operation and maintenance training will be provided by the SAFE development contractor during the first quarter of FY 1983. The operation and maintenance responsibility by OC is consistent with the WBCS development agreement between ODP and OC.

TIME REQUIREMENT:

Beginning in the second quarter FY 1983, through FY 1987.

IMPACT OF LACK OF SERVICE ON OTHER PROGRAMS:

The WBCS is being designed to support the entire Headquarters Building. Lack of this support would seriously degrade SAFE, and other ODP services that will utilize the WBCS.

CONTACTS:

NAME:

OFFICE:

SPS/ODP; Teleprocessing Branch/ED/P/ODP

TELEPHONE:

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COST ESTIMATES
FOR

02/24/81

DDA FY 1983 COMMUNICATIONS REQUIREMENTS

DIRECTORATE REQUIREMENT: 14 OFFICE: ODP

25X1 OPERATION AND MAINTENANCE FOR WBCS. ☐ MAY
AUGMENT SUPPORT).

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NOTE: OC WILL PROGRAM FOR SUPPORT.

DESCRIPTION	QTY	UNIT COST	TOTAL COST	SOC
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	0	0	0	

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DDA RANK: _____ Of _____
OFFICE RANK: 4 Of 10

OFFICE: ODP/Applications/B Division

TITLE: 4C System (Phase II) World-wide Communications Support

REQUIREMENT:

Maintain Phase I network and extend system communications world-wide in cooperation with DIA communications. Funds for terminal and communications acquisition, installation and first-year maintenance will be budgeted by the Office of Security.

JUSTIFICATION:

Mission required under ^{4C}~~APEX~~ implementation.

TIME REQUIREMENT:

FY 1983 - 1985: About 12 terminal locations per year.

Operations and maintenance required through FY 1987.

IMPACT OF LACK OF SERVICE ON OTHER PROGRAMS:

APEX could not be extended world-wide.

CONTACT:

NAME:

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OFFICE: ODP/B Division

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COST ESTIMATES
FOR

02/24/81

DDA FY 1985 COMMUNICATIONS REQUIREMENTS

DIRECTORATE REQUIREMENT: 03 OFFICE: ODP
25X14C SUPPORT 12 TERMINALS.
COMMENT: PER CONTACT WITH ODP OFFICER REQUIREMENT
COVERED IN 4C BUDGET.

DESCRIPTION	QTY	UNIT COST	TOTAL COST	SOC
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	0	0	0	

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DDA RANK: _____ of _____
OFFICE RANK: _____ of _____

OFFICE: ODP/Processing/Engineering Division

TITLE: Installation of Statistical Multiplexers in Outbuildings

REQUIREMENT:

Statistical multiplexers must be installed in all outbuildings to provide error correction and automatic alternate routing of data processing information in the event of line failure. (Note that this requirement replaces the requirement submitted for FY83 to install Comten equipment to provide this service.)

JUSTIFICATION:

Installation of statistical multiplexers is necessary to meet ODP user requirements for a low error rate and more reliable service.

TIME REQUIREMENT: FY84

IMPACT:

Failure to install statistical multiplexers in the outbuildings will reduce the utility of data processing services because of high error rates and unreliable service due to line outages.

CONTACT:

NAME:
OFFICE: Teleprocessing Branch/ED/P/ODP
TELEPHONE:

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DDA RANK: ____ of ____
 OFFICE RANK: ____ of ____

OFFICE: ODP/Processing/Engineering Division

TITLE: Installation and Relocation of Equipment

REQUIREMENT:

This requirement includes installing new devices, relocation of devices, providing new data circuits, and upgrading existing circuits to higher speeds. Of the figures indicated in the table below, about 60% of the devices will be installed in Headquarters, and 40% in outbuildings.

Quantities of New Terminal Installations and Relocations By Fiscal Year

	FY84	FY85	FY86	FY87	FY88
TERMINALS IN ODP BUDGET	90	90	90	90	90
TERMINALS IN USER BUDGET	20	20	20	20	20
COMMUNICATING WORD PROCESSORS	<u>60</u>	<u>55</u>	<u>50</u>	<u>45</u>	<u>40</u>
TOTAL	170	165	160	155	150

NUMBER OF RELOCATIONS

25X1

JUSTIFICATION:

Installation and relocation support is necessary for users to have access to ODP facilities.

TIME REQUIREMENT: FY84 - FY 88

IMPACT:

Failure to provide timely installation and relocation services will prevent ODP from satisfying user requests for data processing services.

CONTACT:

NAME:
 OFFICE: Teleprocessing Branch/ED/P/ODP
 TELEPHONE:

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ODP COMMUNICATIONS SUPPORT REQUIREMENTS FOR FY 83-87

DDA RANK: _____ Of _____
OFFICE RANK: 7 Of 10

OFFICE: ODP/Processing/Engineering Division

TITLE: Development of Interface between the WBCS and COMTEN Processors

REQUIREMENT:

Develop and provide interfaces between the WBCS (bus) and the COMTEN front-end processors presently in use. A sufficient number of these interfaces will be required to allow approximately 1650 data processing devices to be interfaced from the bus to the COMTENS. Maintenance of the interfaces is also required.

JUSTIFICATION:

This interface will be required to allow terminals and other devices to be moved from the copper grid to the bus.

TIME REQUIREMENT:

FY 83-87.

IMPACT OF LACK OF SERVICE ON OTHER PROGRAMS:

Failure to provide these interfaces will prevent additional terminals from being installed because the copper grid is presently filled to near its capacity.

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FOR

02/24/81

DDA FY 1983 COMMUNICATIONS REQUIREMENTS

DIRECTORATE REQUIREMENT: 16 OFFICE: ODP

DEVELOPE AND PROVIDE INTERFACE BETWEEN WBCS
AND COMTEN FRONT END (1650 DEVICES TO BE
INTERFACED). MAINTENANCE REQUIRED.

NOTE: SOLUTION DEPENDENT ON FEASIBILITY STUDY FOR BUS-COMTEN
INTERCONNECT IN WHICH ODP IS A PARTICIPANT.

DESCRIPTION	QTY	UNIT COST	TOTAL COST	SOC
-----	---	-----	-----	----
	0	0	0	

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DDA RANK: of
OFFICE RANK: of

OFFICE: ODP/Processing/Engineering Division

TITLE: Automatic Resynchronization of Cryptographic Devices in
Outbuilding Circuits

REQUIREMENT:

All trunk circuits carrying data processing services to outbuildings must have the capability for the cryptographic equipment to automatically resynchronize following an outage or other circuit aberration which caused a loss of cryptographic synchronization.

JUSTIFICATION:

Some users located in outbuildings experience long outages because the cryptographic equipment loses synchronization and remains out of synchronization until OC is notified via telephone. The length of these outages must be reduced from minutes to a few seconds.

TIME REQUIREMENT: FY84 (if not completed earlier)

IMPACT:

Failure to provide this capability will reduce the utility of data processing services to users located in the outbuildings.

CONTACT:

NAME:
OFFICE: Teleprocessing Branch/ED/P/ODP
TELEPHONE:

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COST ESTIMATES
FOR

02/24/81

DDA FY 1983 COMMUNICATIONS REQUIREMENTS

DIRECTORATE REQUIREMENT: 19 OFFICE: ODP

PROVIDE AUTOMATIC RESYNCH OF CRYPTO DEVICES
IN OUTBUILDING CIRCUITS.

NOTE: OC WILL PROVIDE.

DESCRIPTION	QTY	UNIT COST	TOTAL COST	SOC
-----	---	-----	-----	-----
	0	0	0	

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DDA RANK: of
OFFICE RANK: of

OFFICE: ODP/Processing/Engineering Division

TITLE: Enhanced Circuit-Speed Capabilities

REQUIREMENT:

ODP requires circuits which operate at the following speeds, in order to support projected ADP requirements.

ASYNCHRONOUS - 300, 600, 1200, 2400, 4800, 9600, and
19,200 bits per second

SYNCHRONOUS - 2.4, 4.8, 9.6, 19.2, 56.0 and 64.0 kilobits per second

JUSTIFICATION:

In order to satisfy requirements for new types of equipment and services, the above data rates must be provided by OC. Examples of these requirements are: plotters, color graphics terminals, word processing stations, high volume/high quality printers located in outbuildings, and interfaces with minicomputer installations.

TIME REQUIREMENT: FY84 - FY 88

IMPACT:

Failure to provide these data rates would prevent ODP from satisfying customer requirements.

CONTACT:

NAME:
OFFICE: Teleprocessing Branch/ED/P/ODP
TELEPHONE:

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COST ESTIMATES
FOR

02/24/81

DDA FY 1983 COMMUNICATIONS REQUIREMENTS

RECTORATE REQUIREMENT: 20 OFFICE: ODP

PROVIDE FOLLOWING DATA RATES FOR ASYNCH - 300 -
600-1200-2400-4800-9600 AND 19200 BPS. FOR
SYNCH - 2.4-4.8-9.6-56.0 AND 64.0 KBPS.

[REDACTED]

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TE: WITH DEVELOPMENT OF STAT MUX METROPOLITAN NETWORK WILL
ACCOMMODATE THE DATA RATES STATED. STAT MUX PRODUCTION
DELIVERY EXPECTED TO BEGIN IN EARLY FY82.

DESCRIPTION	QTY	UNIT COST	TOTAL COST	SOC
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	0	0	0	

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DDA RANK: _____ of _____
OFFICE RANK: _____ of _____

OFFICE: ODP/Processing/Engineering Division

TITLE: Installation of Additional Data Lines and Patch Panels in the
Ruffing and Special Computer Centers

REQUIREMENT:

Additional data lines and patch panels must be installed in the Ruffing and Special Computer Centers to accommodate new terminal installations. These lines must be capable of handling asynchronous data with hardware flow control, or synchronous data. The total number of lines for each computer center are listed below by year.

Additional data lines required for the Ruffing Center

	FY84	FY85	FY86	FY87	FY88
Installed based	2450	2620	2785	2945	3100
New devices	<u>170</u>	<u>165</u>	<u>160</u>	<u>155</u>	<u>150</u>
TOTAL LINES	2620	2785	2945	3100	3250

Additional data lines required for the Special Center

	FY84	FY85	FY86	FY87	FY88
Installed based	300	350	400	450	500
New devices	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>
TOTAL LINES	350	400	450	500	550

JUSTIFICATION:

These additional data lines and patch panels are required to support the planned installation of new data processing devices required by users.

TIME REQUIREMENT: FY84 - FY 88

IMPACT:

Failure to provide timely installation and relocation services will prevent ODP from satisfying user requests for data processing services.

CONTACT:

NAME:
OFFICE: Teleprocessing Branch/ED/P/ODP
TELEPHONE:

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COST ESTIMATES
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02/24/81

DDA FY 1986 COMMUNICATIONS REQUIREMENTS

DIRECTORATE REQUIREMENT: 04 OFFICE: ODP

25X1 INSTALL 336 ASYNCH AND 48 BISYNCH DATA LINES AND
PATCH PANELS BETWEEN PIU AND COMTENS UNLESS BUS
DESIGN ALLOWS FOR DIRECT COMMO WITH COMTEN
PROCESSOR.

COMMENT: SOLUTION DEPENDENT ON FEASIBILITY
STUDY FOR BUS-COMTEN INTERCONNECT
IN WHICH ODP IS A PARTICIPANT.

DESCRIPTION	QTY	UNIT COST	TOTAL COST	SOC
	0	0	0	

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